

SEQUENCE LISTING

<110> APOGENIX Biotechnology AG

<120> Improved FC Fusion Proteins

<130> 31098PWO-HC

<140> PCT/EP2004/003239

<141> 2004-03-26

<150> PCT/2004/003239

<151> 2004-03-26

<160> 82

<170> PatentIn Ver. 2.1

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the amplification of CD95 cDNA

<220>

<223> Sense huCD95-Hind III

<400> 1

tataaagctt gccaccatgc tgggcatctg

30

<210> 2

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for
the amplification of CD95 cDNA

<220>

<223> Antisense huCD95-BgI II

<400> 2

tataagatct ggatccttcc tctttgc

27

<210> 3
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer
for the amplification of IgG1 Fc cDNA

<220>
<223> Sense hulgG1Fc-BgIII

<400> 3
tataagatct tgtgacaaaa ctcacacatg 30

<210> 4
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for
the amplification of IgG1 Fc cDNA

<220>
<223> Antisense hulgG1Fc-XhoI

<400> 4
tataactcgag tcattttaccc ggagacaggg 30

<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for
the changing the Kozak Sequence from GCCACCATGC to
GCCGCCACCATGG

<220>
<223> ShuCD95EC_altKozak

<400> 5

tataaagctt gccgccacca tggtagggcat c

31

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer
for the changing the Kozak Sequence from
GCCACCATGC to GCCGCCACCATGG

<220>

<223> AS698 hulgG1Fc-Xho1

<400> 6

tataactcgag tcatttaccc ggagacaggg

30

<210> 7

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>

<223> Sense_hulgG1

<400> 7

ccagggactc ctgcctcttg tgacaaaact cacacatg

38

<210> 8

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
amplifying cDNA of human IgG1 Fc (partial hinge
CH3)

<220>

<223> Antisense_ERIhulgG1

<400> 8

tatagaattc tcatttaccc ggagacaggg

30

<210> 9

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer used to
amplify the cDNA of TRAILR2 domain

<220>

<223> Sense_HIII_TRAILR2

<400> 9

tataaagctt gccgccacca tggaacaacg gggacagaac

40

<210> 10

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer used to
amplify the cDNA of TRAILR2 domain

<220>

<223> Antisense_TRAILR2

<400> 10

gtgagttttg tcacaagagg caggagtccc tgg

33

<210> 11

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for PCR
used to utilize fragments for cloning purposes

<220>

<223> Sense_HIII_TRAILR2

<400> 11

tataaagctt gccgccacca tggaacaacg gggacagaac

40

<210> 12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer for
PCR used to utilize fragments for cloning
purposes

<220>

<223> Antisense_ERIhulgG1

<400> 12

tatagaattc tcatttacct ggagacaggg

30

<210> 13

<211> 335

<212> PRT

<213> human

<220>

<223> CD95 >sp/P25445/TNR6_HUMAN Tumor necrosis factor
receptor superfamily 6 precursor (FASL-receptor)
(Apoptosis-mediating surface antigen FAS) (Apo-1
antigen) (CD95) - Homo sapiens (Human)

<400> 13

Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
1 5 10 15

Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser
20 25 30

Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val Glu Thr Gln Asn
35 40 45

Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro
50 55 60

Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro

65		70		75		80
Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His						
	85		90		95	
Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp Glu Gly His Gly						
	100		105		110	
Leu Glu Val Glu Ile Asn Cys Thr Arg Thr Gln Asn Thr Lys Cys Arg						
	115		120		125	
Cys Lys Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp						
	130		135		140	
Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr						
	145		150		155	160
Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn Leu Gly Trp						
	165		170		175	
Leu Cys Leu Leu Leu Leu Pro Ile Pro Leu Ile Val Trp Val Lys Arg						
	180		185		190	
Lys Glu Val Gln Lys Thr Cys Arg Lys His Arg Lys Glu Asn Gln Gly						
	195		200		205	
Ser His Glu Ser Pro Thr Leu Asn Pro Glu Thr Val Ala Ile Asn Leu						
	210		215		220	
Ser Asp Val Asp Leu Ser Lys Tyr Ile Thr Thr Ile Ala Gly Val Met						
	225		230		235	240
Thr Leu Ser Gln Val Lys Gly Phe Val Arg Lys Asn Gly Val Asn Glu						
	245		250		255	
Ala Lys Ile Asp Glu Ile Lys Asn Asp Asn Val Gln Asp Thr Ala Glu						
	260		265		270	
Gln Lys Val Gln Leu Leu Arg Asn Trp His Gln Leu His Gly Lys Lys						
	275		280		285	
Glu Ala Tyr Asp Thr Leu Ile Lys Asp Leu Lys Lys Ala Asn Leu Cys						
	290		295		300	
Thr Leu Ala Glu Lys Ile Gln Thr Ile Ile Leu Lys Asp Ile Thr Ser						
	305		310		315	320
Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile Gln Ser Leu Val						

325

330

335

<210> 14

<211> 330

<212> PRT

<213> human

<220>

<223> IgG1 > sp/P01857/GC1_HUMAN Ig gamma-1 chain C
region - Homo sapiens (Human)

<400> 14

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu

180	185	190
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn		
195	200	205
Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly		
210	215	220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu		
225	230	240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr		
245	250	255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn		
260	265	270
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe		
275	280	285
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn		
290	295	300
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr		
305	310	320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys		
325	330	

<210> 15
 <211> 400
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> MUTAGEN
 <222> (1)..(400)
 <223> CD95-Fc fusion protein (AA 1-172 CD95 and AA
 102-330 IgG1)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 15
 Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
 1 5 10 15

Arg	Leu	Ser	Ser	Lys	Ser	Val	Asn	Ala	Gln	Val	Thr	Asp	Ile	Asn	Ser	20	25	30	
Lys	Gly	Leu	Glu	Leu	Arg	Lys	Thr	Val	Thr	Thr	Val	Glu	Thr	Gln	Asn	35	40	45	
Leu	Glu	Gly	Leu	His	His	Asp	Gly	Gln	Phe	Cys	His	Lys	Pro	Cys	Pro	50	55	60	
Pro	Gly	Glu	Arg	Lys	Ala	Arg	Asp	Cys	Thr	Val	Asn	Gly	Asp	Glu	Pro	65	70	75	80
Asp	Cys	Val	Pro	Cys	Gln	Glu	Gly	Lys	Glu	Tyr	Thr	Asp	Lys	Ala	His	85	90	95	
Phe	Ser	Ser	Lys	Cys	Arg	Arg	Cys	Arg	Leu	Cys	Asp	Glu	Gly	His	Gly	100	105	110	
Leu	Glu	Val	Glu	Ile	Asn	Cys	Thr	Arg	Thr	Gln	Asn	Thr	Lys	Cys	Arg	115	120	125	
Cys	Lys	Pro	Asn	Phe	Phe	Cys	Asn	Ser	Thr	Val	Cys	Glu	His	Cys	Asp	130	135	140	
Pro	Cys	Thr	Lys	Cys	Glu	His	Gly	Ile	Ile	Lys	Glu	Cys	Thr	Leu	Thr	145	150	155	160
Ser	Asn	Thr	Lys	Cys	Lys	Glu	Glu	Gly	Ser	Arg	Ser	Cys	Asp	Lys	Thr	165	170	175	
His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	180	185	190	
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	195	200	205	
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	210	215	220	
Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	225	230	235	240
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	245	250	255	
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	260	265	270	

Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr
 275 280 285
 Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
 290 295 300
 Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
 305 310 315 320
 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
 325 330 335
 Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp
 340 345 350
 Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
 355 360 365
 Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
 370 375 380
 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 385 390 395 400

<210> 16
 <211> 43
 <212> PRT
 <213> human

<220>
 <223> CD95 extracellular domain (AA 131-173)

<400> 16
 Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
 1 5 10 15
 Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
 20 25 30
 Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn
 35 40

<210> 17
<211> 22
<212> PRT
<213> human

<220>
<223> huIgG1 (AA 99-120)

<400> 17
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
1 5 10 15

Pro Glu Leu Leu Gly Gly
20

<210> 18
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> CD95-Fc fusion protein of CD95 extracellular
domain (AA 131-173) and huIgG1 (AA99-120) with an
overlapping amino acid (CD95 AA 172 and huIgG1 AA
102)

<220>
<223> Description of Artificial Sequence: fusion
protein

<400> 18
Pro Asn Phe Phe Cys Asn Ser Thr Val Cys Glu His Cys Asp Pro Cys
1 5 10 15

Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr Ser Asn
20 25 30

Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Cys Asp Lys Thr His Thr
35 40 45

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55 60

<210> 19
<211> 468
<212> PRT
<213> human

<220>

<223> TRAIL-R1 >sp/000220/T10A_HUMAN Tumor necrosis
factor receptor superfamily member 10A precursor
(Death receptor 4) (TNF-related
apoptosis-including ligand receptor 1) (TRAIL
receptor-1) (TRAIL-R1)

<400> 19

Met Ala Pro Pro Pro Ala Arg Val His Leu Gly Ala Phe Leu Ala Val
1 5 10 15

Thr Pro Asn Pro Gly Ser Ala Ala Ser Gly Thr Glu Ala Ala Ala Ala
20 25 30

Thr Pro Ser Lys Val Trp Gly Ser Ser Ala Gly Arg Ile Glu Pro Arg
35 40 45

Gly Gly Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro
50 55 60

Ser Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Arg Pro Ala Arg
65 70 75 80

Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val Val
85 90 95

Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr Ile Lys
100 105 110

Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His Ser Pro Leu
115 120 125

Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu His Pro Gly Ala
130 135 140

Cys Asn Arg Cys Thr Glu Gly Val Gly Tyr Thr Asn Ala Ser Asn Asn
145 150 155 160

Leu Phe Ala Cys Leu Pro Cys Thr Ala Cys Lys Ser Asp Glu Glu Glu
165 170 175

Arg Ser Pro Cys Thr Thr Thr Arg Asn Thr Ala Cys Gln Cys Lys Pro

180	185	190
Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser		
195	200	205
Arg Gly Cys Pro Arg Gly Met Val Lys Val Lys Asp Cys Thr Pro Trp		
210	215	220
Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile		
225	230	235 240
Trp Val Ile Leu Val Val Thr Leu Val Val Pro Leu Leu Leu Val Ala		
	245	250 255
Val Leu Ile Val Cys Cys Cys Ile Gly Ser Gly Cys Gly Gly Asp Pro		
	260	265 270
Lys Cys Met Asp Arg Val Cys Phe Trp Arg Leu Gly Leu Leu Arg Gly		
	275	280 285
Pro Gly Ala Glu Asp Asn Ala His Asn Glu Ile Leu Ser Asn Ala Asp		
	290	295 300
Ser Leu Ser Thr Phe Val Ser Glu Gln Gln Met Glu Ser Gln Glu Pro		
305	310	315 320
Ala Asp Leu Thr Gly Val Thr Val Gln Ser Pro Gly Glu Ala Gln Cys		
	325	330 335
Leu Leu Gly Pro Ala Glu Ala Glu Gly Ser Gln Arg Arg Arg Leu Leu		
	340	345 350
Val Pro Ala Asn Gly Ala Asp Pro Thr Glu Thr Leu Met Leu Phe Phe		
	355	360 365
Asp Lys Phe Ala Asn Ile Val Pro Phe Asp Ser Trp Asp Gln Leu Met		
	370	375 380
Arg Gln Leu Asp Leu Thr Lys Asn Glu Ile Asp Val Val Arg Ala Gly		
385	390	395 400
Thr Ala Gly Pro Gly Asp Ala Leu Tyr Ala Met Leu Met Lys Trp Val		
	405	410 415
Asn Lys Thr Gly Arg Asn Ala Ser Ile His Thr Leu Leu Asp Ala Leu		
	420	425 430
Glu Arg Met Glu Glu Arg His Ala Lys Glu Lys Ile Gln Asp Leu Leu		

435

440

445

Val Asp Ser Gly Lys Phe Ile Tyr Leu Glu Asp Gly Thr Gly Ser Ala
 450 455 460

Val Ser Leu Glu
 465

<210> 20
 <211> 39
 <212> PRT
 <213> human

<220>
 <223> Trail R1 extracellular domain (AA 201-239)

<400> 20
 Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
 1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
 20 25 30

Glu Ser Gly Asn Gly His Asn
 35

<210> 21
 <211> 54
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R1-Fc fusion protein of Trail R1
 extracellular domain (AA 201-239) and huIgG1
 (AA99-120) with an overlapping amino acid (TRAILR1
 AA 233 and huIgG1 AA 99)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 21
 Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
 1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly
50

<210> 22
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAILR1 AA
232 and huIgG1 AA 101)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 22
Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 23
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1

(AA99-120) with an overlapping amino acid (TRAILR1
AA 234 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 23

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 24

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R1-Fc fusion protein of Trail R1
extracellular domain (AA 201-239) and huIgG1
(AA99-120) with an overlapping amino acid (TRAILR1
AA 238 and huIgG1 AA 107)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 24

Ala Glu Met Cys Arg Lys Cys Ser Arg Gly Cys Pro Arg Gly Met Val
1 5 10 15

Lys Val Lys Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys
20 25 30

Glu Ser Gly Asn Gly His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 25
<211> 440
<212> PRT
<213> human

<220>

<223> Trail-R2 >sp/014763/T10B_HUMAN Tumor necrosis
factor receptor superfamily member 10B precursor
(Death receptor 5) (TNF-related
apoptosis-including ligand receptor 2) (TRAIL
receptor-2) (TRAIL-R2)

<400> 25

Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys
1 5 10 15

Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
20 25 30

Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
35 40 45

Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
50 55 60

Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser Glu Gly Leu
65 70 75 80

Cys Pro Pro Gly His His Ile Ser Glu Asp Gly Arg Asp Cys Ile Ser
85 90 95

Cys Lys Tyr Gly Gln Asp Tyr Ser Thr His Trp Asn Asp Leu Leu Phe
100 105 110

Cys Leu Arg Cys Thr Arg Cys Asp Ser Gly Glu Val Glu Leu Ser Pro
115 120 125

Cys Thr Thr Thr Arg Asn Thr Val Cys Gln Cys Glu Glu Gly Thr Phe
130 135 140

Arg Glu Glu Asp Ser Pro Glu Met Cys Arg Lys Cys Arg Thr Gly Cys
145 150 155 160

Pro Arg Gly Met Val Lys Val Gly Asp Cys Thr Pro Trp Ser Asp Ile
165 170 175

Glu Cys Val His Lys Glu Ser Gly Thr Lys His Ser Gly Glu Ala Pro	180	185	190
Ala Val Glu Glu Thr Val Thr Ser Ser Pro Gly Thr Pro Ala Ser Pro	195	200	205
Cys Ser Leu Ser Gly Ile Ile Ile Gly Val Thr Val Ala Ala Val Val	210	215	220
Leu Ile Val Ala Val Phe Val Cys Lys Ser Leu Leu Trp Lys Lys Val	225	230	235 240
Leu Pro Tyr Leu Lys Gly Ile Cys Ser Gly Gly Gly Gly Asp Pro Glu	245	250	255
Arg Val Asp Arg Ser Ser Gln Arg Pro Gly Ala Glu Asp Asn Val Leu	260	265	270
Asn Glu Ile Val Ser Ile Leu Gln Pro Thr Gln Val Pro Glu Gln Glu	275	280	285
Met Glu Val Gln Glu Pro Ala Glu Pro Thr Gly Val Asn Met Leu Ser	290	295	300
Pro Gly Glu Ser Glu His Leu Leu Glu Pro Ala Glu Ala Glu Arg Ser	305	310	315 320
Gln Arg Arg Arg Leu Leu Val Pro Ala Asn Glu Gly Asp Pro Thr Glu	325	330	335
Thr Leu Arg Gln Cys Phe Asp Asp Phe Ala Asp Leu Val Pro Phe Asp	340	345	350
Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp Asn Glu Ile	355	360	365
Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr Leu Tyr Thr	370	375	380
Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala Ser Val His	385	390	395 400
Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu Ala Lys Gln	405	410	415
Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met Tyr Leu Glu	420	425	430

Gly Asn Ala Asp Ser Ala Met Ser
435 440

<210> 26
<211> 40
<212> PRT
<213> human

<220>
<223> Trail R2 (long) extracellular domain (AA 171-210),
"repeat" included

<400> 26
Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser
35 40

<210> 27
<211> 58
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R1
extracellular domain (AA 171-210)Trail R2 (long)
extracellular domain (AA 171-210), "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid

<220>
<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 210 and
huIgG1 AA 102)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 27

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Cys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 28

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
extracellular domain (AA 171-210; "repeat"
included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA 207 and
huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 28

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
35 40 45

Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 29

<211> 58

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2 extracellular domain (AA 171-210; "repeat" included) and huIgG1 (AA99-120) with an overlapping amino acid (TRAIL-R2(long) AA 208 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 29

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro
35 40 45

Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 30

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2 extracellular domain (AA 171-210; "repeat" included) and huIgG1 (AA99-120) with an overlapping amino acid (TRAIL-R2(long) AA 205 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 30

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 35 40 45

Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 31
 <211> 56
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R2(long)-Fc fusion protein of Trail R1
 extracellular domain (AA 171-210; "repeat"
 included) and huIgG1 (AA99-120) with an
 overlapping amino acid (TRAIL-R2(long) AA 209 and
 huIgG1 AA 103)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 31
 Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
 1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
 20 25 30

Gly Thr Pro Ala Ser Pro Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 32
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R2(long)-Fc fusion protein of Trail R2
 extracellular domain (AA 171-210; "repeat"
 included) and huIgG1 (AA99-120) with an

overlapping amino acid (TRAIL-R2(long) AA 204 and
huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 32

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala Pro Ala Val Glu Glu Thr Val Thr Ser Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 33

<211> 21

<212> PRT

<213> human

<220>

<223> Trail R2 (long) extracellular domain (AA 171-191;
"repeat" not included)

<400> 33

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Ala
20

<210> 34

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA 171-191; "repeat"
not included) and huIgG1 (AA99-120) with an

overlapping amino acid (TRAIL-R2(long) AA190 and
huIgG1 AA99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 34

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Gly Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
20 25 30

Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40

<210> 35

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA186 and
huIgG1 AA101).

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 35

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
20 25 30

Leu Gly Gly
35

<210> 36

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA188 and
huIgG1 AA102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 36

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
1 5 10 15

His Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
20 25 30

Leu Leu Gly Gly
35

<210> 37

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(long)-Fc fusion protein of Trail R2
(long) extracellular domain (AA171-191; "repeat"
not included) and huIgG1 (AA99-120) with an
overlapping amino acid (TRAIL-R2(long) AA185 and
huIgG1 AA106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 37

Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr His
1 5 10 15

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
20 25

<210> 38
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R2(long)-Fc fusion protein of Trail R2
 (long) extracellular domain (AA171-191; "repeat"
 not included) and huIgG1 (AA99-120) with an
 overlapping amino acid (TRAIL-R2(long) AA187 and
 huIgG1 AA107)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 38
 Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Thr Lys
 1 5 10 15
 His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 20 25 30

<210> 39
 <211> 411
 <212> PRT
 <213> human

<220>
 <223> Trail-R2 (short) >sp/014763/T10B_HUMAN Tumor
 necrosis factor receptor superfamily 10B precursor
 (Death receptor 5) (TNF-related apoptosis-inducing
 ligand receptor 2) (TRAIL receptor-2) (TRAIL-R2)

<400> 39
 Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys
 1 5 10 15
 Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro Gly Pro
 20 25 30
 Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val Leu Leu Leu
 35 40 45
 Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp Leu Ala Pro Gln
 50 55 60

Gln	Arg	Ala	Ala	Pro	Gln	Gln	Lys	Arg	Ser	Ser	Pro	Ser	Glu	Gly	Leu	65	70	75	80
Cys	Pro	Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	Cys	Ile	Ser	85	90	95	
Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	Leu	Leu	Phe	100	105	110	
Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	115	120	125	
Cys	Thr	Thr	Thr	Arg	Asn	Thr	Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	130	135	140	
Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	145	150	155	160
Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	165	170	175	
Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	180	185	190	
Ala	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	195	200	205	
Lys	Lys	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	210	215	220	
Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	225	230	235	240
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	Pro	245	250	255	
Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	Val	Asn	260	265	270	
Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala	275	280	285	
Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	Asn	Glu	Gly	Asp	290	295	300	
Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	Phe	Ala	Asp	Leu	Val	305	310	315	320

Pro Phe Asp Ser Trp Glu Pro Leu Met Arg Lys Leu Gly Leu Met Asp
325 330 335

Asn Glu Ile Lys Val Ala Lys Ala Glu Ala Ala Gly His Arg Asp Thr
340 345 350

Leu Tyr Thr Met Leu Ile Lys Trp Val Asn Lys Thr Gly Arg Asp Ala
355 360 365

Ser Val His Thr Leu Leu Asp Ala Leu Glu Thr Leu Gly Glu Arg Leu
370 375 380

Ala Lys Gln Lys Ile Glu Asp His Leu Leu Ser Ser Gly Lys Phe Met
385 390 395 400

Tyr Leu Glu Gly Asn Ala Asp Ser Ala Met Ser
405 410

<210> 40

<211> 34

<212> PRT

<213> human

<220>

<223> Trail-R2 (short) extracellular domain (AA 151 - AA
184)

<400> 40

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Gly

<210> 41

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2

(short) extracellular domain (AA 151-184) and
 huIgG1 (AA 99-120) with an overlapping amino acid
 (TRAIL-R2(short) AA 182 and huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 41

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
 1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
 20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 35 40 45

Glu Leu Leu Gly Gly
 50

<210> 42

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
 (short) extracellular domain (AA 151-184) and
 huIgG1 (AA 99-120) with an overlapping amino acid
 (TRAIL-R2(short) AA 181 and huIgG1 AA 101)

<220>

<223> Description of Artificial Sequence: fusion protein.

<400> 42

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
 1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Ser
 20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 35 40 45

Gly Gly
 50

<210> 43
<211> 51
<212> PRT
<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 183 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 43

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys
1 5 10 15

Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Lys Glu
20 25 30

Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
35 40 45

Leu Gly Gly
50

<210> 44
<211> 43
<212> PRT
<213> Artificial Sequence

<220>

<223> Trail-R2(short)-Fc fusion protein of Trail R2
(short) extracellular domain (AA 151-184) and
huIgG1 (AA 99-120) with an overlapping amino acid
(TRAIL-R2(short) AA 180 and huIgG1 AA 107)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 44

Glu Met Cys Arg Lys Cys Arg Thr Gly Cys Pro Arg Gly Met Val Lys

1	5	10	15
Val Gly Asp Cys Thr Pro Trp Ser Asp Ile Glu Cys Val His Thr Cys			
20	25	30	
Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly			
35	40		

<210> 45
 <211> 259
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R3>sp/014798/T10C_HUMAN Tumor necrosis
 factor receptor superfamily member 10C
 precursor;Decoy receptor 1;DcR1;Decoy TRAIL
 receptor without death domain;TNF-related
 apoptosis inducing ligand r3

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 45
 Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val Ala
 1 5 10 15
 Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu
 20 25 30
 Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe
 35 40 45
 Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly
 50 55 60
 Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
 65 70 75 80
 Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys
 85 90 95
 His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln Cys Lys
 100 105 110
 Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys Arg Lys Cys

115	120	125
Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp		
130	135	140
Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu		
145	150	155
Thr Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala		
165	170	175
Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro		
180	185	190
Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala		
195	200	205
Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala		
210	215	220
Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr		
225	230	235
Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile		
245	250	255
Val Phe Val		

<210> 46
 <211> 36
 <212> PRT
 <213> human

<220>
 <223> Trail-R3 extracellular domain (AA 201-236;
 "repeats" included)

<400> 46
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
 1 5 10 15
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
 20 25 30
 Gly Thr Pro Ala

<210> 47
 <211> 55
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 201-236; "repeats"
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 235 and huIgG1
 AA 100)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 47
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
 1 5 10 15
 Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
 20 25 30
 Gly Thr Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
 35 40 45
 Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 48
 <211> 52
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 201-236; "repeats"
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 232 and huIgG1
 AA 100)

<220>
 <223> Description of Artificial Sequence: fusion protein

<400> 48

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 49

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 231 and huIgG1
AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 49

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 50

<211> 48

<212> PRT
<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 234 and huIgG1
AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 50

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser Pro
20 25 30

Gly Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 51

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 201-236; "repeats"
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 230 and huIgG1
AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 51

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr His Thr

20

25

30

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 35 40

<210> 52

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 201-236; "repeats"
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 229 and huIgG1
 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 52

Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr Ser
 1 5 10 15

Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr His Thr Cys
 20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 35 40

<210> 53

<211> 41

<212> PRT

<213> human

<220>

<223> Trail-R3 extracellular domain (AA 121-161,
 "repeats" not included)

<400> 53

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
 1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu

20

25

30

Phe Gly Ala Asn Ala Thr Val Glu Thr
 35 40

<210> 54

<211> 61

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 121-161; "repeats"not
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 160 and
 huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 54

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
 1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
 20 25 30

Phe Gly Ala Asn Ala Thr Val Glu Pro Lys Ser Cys Asp Lys Thr His
 35 40 45

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 50 55 60

<210> 55

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
 extracellular domain (AA 121-161; "repeats"not
 included) and huIgG1 (AA 99-120) with an
 overlapping amino acid (TRAIL-R3 AA 152 and
 huIgG1 AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 55

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 56

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 151 and huIgG1
AA 99)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 56

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15

Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Pro
20 25 30

Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 57
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 161 and
huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 57
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val
1 5 10 15
Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
20 25 30
Phe Gly Ala Asn Ala Thr Val Glu Thr His Thr Cys Pro Pro Cys Pro
35 40 45
Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 58
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R3-Fc fusion protein of Trail-R3
extracellular domain (AA 121-161; "repeats"not
included) and huIgG1 (AA 99-120) with an
overlapping amino acid (TRAIL-R3 AA 158 and
huIgG1 AA 106)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 58
Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val

1 5 10 15
 Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu
 20 25 30
 Phe Gly Ala Asn Ala Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
 35 40 45
 Leu Leu Gly Gly
 50

<210> 59
 <211> 386
 <212> PRT
 <213> human

<220>
 <223> Trail-R4>sp/Q9UBN6/T10D_HUMAN Tumor necrosis
 factor receptor superfamily member 10D
 precursor;Decoy receptor 2; DcR2; TNF-related
 apoptosis-inducing ligand receptor 4)

<400> 59
 Met Gly Leu Trp Gly Gln Ser Val Pro Thr Ala Ser Ser Ala Arg Ala
 1 5 10 15
 Gly Arg Tyr Pro Gly Ala Arg Thr Ala Ser Gly Thr Arg Pro Trp Leu
 20 25 30
 Leu Asp Pro Lys Ile Leu Lys Phe Val Val Phe Ile Val Ala Val Leu
 35 40 45
 Leu Pro Val Arg Val Asp Ser Ala Thr Ile Pro Arg Gln Asp Glu Val
 50 55 60
 Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg Arg Ser Leu Lys Glu
 65 70 75 80
 Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu Tyr Thr Gly Ala Cys
 85 90 95
 Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Ile Ala Ser Asn Asn Leu
 100 105 110
 Pro Ser Cys Leu Leu Cys Thr Val Cys Lys Ser Gly Gln Thr Asn Lys
 115 120 125

Ser Ser Cys Thr Thr Thr Arg Asp Thr Val Cys Gln Cys Glu Lys Gly
 130 135 140

Ser Phe Gln Asp Lys Asn Ser Pro Glu Met Cys Arg Thr Cys Arg Thr
 145 150 155 160

Gly Cys Pro Arg Gly Met Val Lys Val Ser Asn Cys Thr Pro Arg Ser
 165 170 175

Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala Ser Ser Thr Gly Lys Thr
 180 185 190

Pro Ala Ala Glu Glu Thr Val Thr Thr Ile Leu Gly Met Leu Ala Ser
 195 200 205

Pro Tyr His Tyr Leu Ile Ile Ile Val Val Leu Val Ile Ile Leu Ala
 210 215 220

Val Val Val Val Gly Phe Ser Cys Arg Lys Lys Phe Ile Ser Tyr Leu
 225 230 235 240

Lys Gly Ile Cys Ser Gly Gly Gly Gly Gly Pro Glu Arg Val His Arg
 245 250 255

Val Leu Phe Arg Arg Arg Ser Cys Pro Ser Arg Val Pro Gly Ala Glu
 260 265 270

Asp Asn Ala Arg Asn Glu Thr Leu Ser Asn Arg Tyr Leu Gln Pro Thr
 275 280 285

Gln Val Ser Glu Gln Glu Ile Gln Gly Gln Glu Leu Ala Glu Leu Thr
 290 295 300

Gly Val Thr Val Glu Ser Pro Glu Glu Pro Gln Arg Leu Leu Glu Gln
 305 310 315 320

Ala Glu Ala Glu Gly Cys Gln Arg Arg Arg Leu Leu Val Pro Val Asn
 325 330 335

Asp Ala Asp Ser Ala Asp Ile Ser Thr Leu Leu Asp Ala Ser Ala Thr
 340 345 350

Leu Glu Glu Gly His Ala Lys Glu Thr Ile Gln Asp Gln Leu Val Gly
 355 360 365

Ser Glu Lys Leu Phe Tyr Glu Glu Asp Glu Ala Gly Ser Ala Thr Ser
 370 375 380

Cys Leu
385

<210> 60
<211> 41
<212> PRT
<213> human

<220>
<223> Trail-R4 extracellular domain (AA 171-211)

<400> 60
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30
Leu Gly Met Leu Ala Ser Pro Tyr His
35 40

<210> 61
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 209 and huIgG1 AA 100)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 61
Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15
Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30
Leu Gly Met Leu Ala Ser Pro Lys Ser Cys Asp Lys Thr His Thr Cys

35

40

45

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 62

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
 extracellular domain (AA 171-211) and huIgG1 (AA
 99-120) with an overlapping amino acid (TRAIL-R4
 AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 62

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
 1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
 20 25 30

Leu Gly Met Leu Ala Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 63

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
 extracellular domain (AA 171-211) and huIgG1 (AA
 99-120) with an overlapping amino acid (TRAIL-R4
 AA 201 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 63

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr His
20 25 30

Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 64

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Trail-R4-Fc fusion protein of Trail-R4
extracellular domain (AA 171-211) and huIgG1 (AA
99-120) with an overlapping amino acid (TRAIL-R4
AA 211 and huIgG1 AA 107)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 64

Asn Cys Thr Pro Arg Ser Asp Ile Lys Cys Lys Asn Glu Ser Ala Ala
1 5 10 15

Ser Ser Thr Gly Lys Thr Pro Ala Ala Glu Glu Thr Val Thr Thr Ile
20 25 30

Leu Gly Met Leu Ala Ser Pro Tyr His Thr Cys Pro Pro Cys Pro Ala
35 40 45

Pro Glu Leu Leu Gly Gly
50

<210> 65

<211> 455

<212> PRT

<213> human

<220>

<223> TNF-R1 >sp/P19438/TR1A_HUMAN necrosis factor
receptor superfamily member 1A precursor (p60)
(TNF-R1) (p55) (CD120a) [contains: Tumor necrosis
factor binding protein 1 (TBPI)]

<400> 65

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
100 105 110

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
115 120 125

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
130 135 140

Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
145 150 155 160

Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
165 170 175

Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
180 185 190

Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
195 200 205

Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
210 215 220

Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
 225 230 235 240

Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
 245 250 255

Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
 260 265 270

Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
 275 280 285

Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
 290 295 300

Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
 305 310 315 320

Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
 325 330 335

Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
 340 345 350

Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
 355 360 365

Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
 370 375 380

Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
 385 390 395 400

Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
 405 410 415

Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
 420 425 430

Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
 435 440 445

Pro Ala Pro Ser Leu Leu Arg
 450 455

<210> 66
<211> 41
<212> PRT
<213> human

<220>
<223> TNF-R1 extracellular domain (AA 171-211)

<400> 66
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15
Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30
Lys Gly Thr Glu Asp Ser Gly Thr Thr
35 40

<210> 67
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 206 and huIgG1 AA 99)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 67
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15
Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30
Lys Gly Thr Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro
35 40 45
Cys Pro Ala Pro Glu Leu Leu Gly Gly
50 55

<210> 68
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 101)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 68
Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15
Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30
Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45
Leu Leu Gly Gly
50

<210> 69
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 203 and huIgG1 AA 105)

<220>
<223> Description of Artificial Sequence: fusion protein

<400> 69

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 35 40 45

<210> 70

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 208 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 70

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Gly Thr Glu Asp Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 35 40 45

Pro Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 71

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 207 and huIgG1 AA 104)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 71

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 72

<211> 55

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 211 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 72

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr Thr His Thr Cys Pro Pro Cys Pro
 35 40 45

Ala Pro Glu Leu Leu Gly Gly
 50 55

<210> 73

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R1-Fc fusion protein of TNF-R1 extracellular domain (AA 171-211) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R1 AA 210 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 73

Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
 1 5 10 15

Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn Val
 20 25 30

Lys Gly Thr Glu Asp Ser Gly Thr His Thr Cys Pro Pro Cys Pro Ala
 35 40 45

Pro Glu Leu Leu Gly Gly
 50

<210> 74

<211> 461

<212> PRT

<213> human

<220>

<223> TNF-R2 >sp/P20333/TR1B_HUMAN necrosis factor receptor superfamily member 1B precursor (p80) (TNF-R2) (p75) (CD120b) [contains: Tumor necrosis factor binding protein 2 (TBPII)]

<400> 74

Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu
1 5 10 15

Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr
20 25 30

Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln
35 40 45

Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys
50 55 60

Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp
65 70 75 80

Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys
85 90 95

Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg
100 105 110

Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
115 120 125

Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg
130 135 140

Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val
145 150 155 160

Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr
165 170 175

Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly
180 185 190

Asn Ala Ser Met Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser
195 200 205

Met Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser
210 215 220

Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser
225 230 235 240

Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly

	245		250		255
Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly	260		265		270
Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys	275		280		285
Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro	290		295		300
Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu	305		310		315
					320
Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser		325		330	335
Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly		340		345	350
Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser		355		360	365
Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile		370		375	380
Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln		385		390	395
					400
Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro		405		410	415
Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser		420		425	430
Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro		435		440	445
Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser		450		455	460

<210> 75
 <211> 37
 <212> PRT
 <213> human

<220>

<223> TNF-R2 extracellular domain (AA 221-257)

<400> 75

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr Gly Asp
35

<210> 76

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular
domain (AA 221-257) and huIgG1 (AA 99-120) with an
overlapping amino acid (TNF-R2 AA 252 and huIgG1
AA 99)

<220>

<223> Description of Artificial Sequence: fusion
protein

<400> 76

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 77

<211> 50

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 250 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 77

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Lys Ser
20 25 30

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
35 40 45

Gly Gly
50

<210> 78

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 249 and huIgG1 AA 100)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 78

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Lys Ser Cys
20 25 30

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly

<210> 79

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 254 and huIgG1 AA 102)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 79

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
35 40 45

Leu Leu Gly Gly
50

<210> 80

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 248 and huIgG1

AA 102)

<220>

<223> Description of Artificial Sequence: fusion
protein

<400> 80

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Cys Asp Lys Thr
20 25 30

His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
35 40 45

<210> 81

<211> 53

<212> PRT

<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular
domain (AA 221-257) and huIgG1 (AA 99-120) with an
overlapping amino acid (TNF-R2 AA 257 and huIgG1
AA 104)

<220>

<223> Description of Artificial Sequence: fusion
protein

<400> 81

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
35 40 45

Glu Leu Leu Gly Gly
50

<210> 82
<211> 49
<212> PRT
<213> Artificial Sequence

<220>

<223> TNF-R2-Fc fusion protein of TNF-R2 extracellular domain (AA 221-257) and huIgG1 (AA 99-120) with an overlapping amino acid (TNF-R2 AA 255 and huIgG1 AA 106)

<220>

<223> Description of Artificial Sequence: fusion protein

<400> 82

Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala
1 5 10 15

Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu
20 25 30

Gly Ser Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
35 40 45

Gly